

Claims:

1. A particle containing a peroxide-sensitive component and a hydrogen-peroxide:hydrogen-peroxide-reductase.
- 5 2. The granule of claim 1 wherein the peroxide-sensitive component is an enzyme, selected from a protease, an amylase, a cellulase, or a lipase.
3. The particle of claim 1 wherein the peroxide-sensitive component is a peptide.
4. The particle of claim 1 wherein the peroxide-sensitive component is a protein.
- 10 5. The particle of claim 1 wherein the peroxide-sensitive component is a dye or pigment.
6. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is mixed together with the peroxide-sensitive component.
7. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is coated over the peroxide-sensitive component.
- 15 8. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of less than about 5,000 U/g of particle.
9. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration above 20 U/g of particle.
- 20 10. The particle of claim 1 wherein the hydrogen-peroxide-reductase is present at a concentration of about 10-350 U/g of particle.
11. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 10-200 U/ gram of particle.
12. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 15-150 U/g gram of particle.
- 25 13. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 20-100 U/ gram of particle.
14. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is present at a concentration of about 60-100 U/gram of particle.
- 30 15. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a naturally occurring catalase.
16. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is an engineered catalase.

17. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase derived from *Aspergillus niger*.
18. The particle of claim 1 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase derived from a *Micrococcus species* of bacteria.
- 5 19. A detergent with peroxygen bleach, such as perborate or percarbonate, including the particle of claim 1.
20. A method of stabilizing an enzyme in a detergent granule containing peroxygen bleach, the method comprising the step of adding a hydrogen-peroxide:hydrogen-peroxide-reductase to the enzyme during manufacture of the granule.
- 10 21. The method of claim 20 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase that is mixed together with the enzyme.
22. The method of claim 20 wherein the hydrogen-peroxide:hydrogen-peroxide-reductase is a catalase that is added to surround the enzyme.
23. The method of claim 20 wherein about 10-200 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
- 15 24. The method of claim 20 wherein about 15-150 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
25. The method of claim 20 wherein about 20-100 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
- 20 26. The method of claim 20 wherein about 60-100 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.
27. The method of claim 20 wherein above 20 U of a catalase hydrogen-peroxide:hydrogen-peroxide-reductase is added per gram of the granule.

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